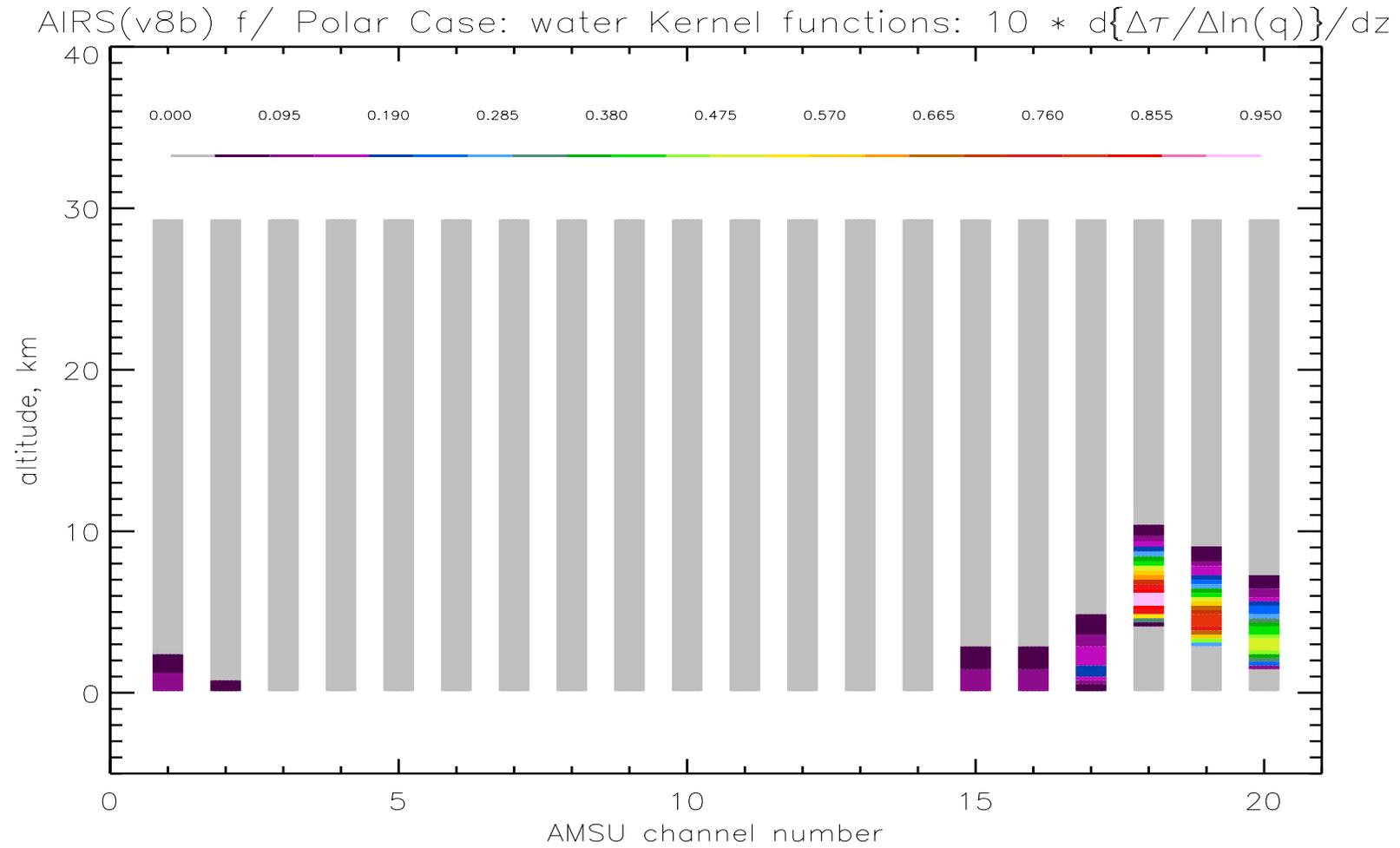


- Kernel functions for $q(p)$ computed using v8b RTA
- Used sim_3.asc file for Polar, Mid-Latitude, Tropical Profiles
 - 3 profiles taken from G401 on Sep. 6, 2002 simulation

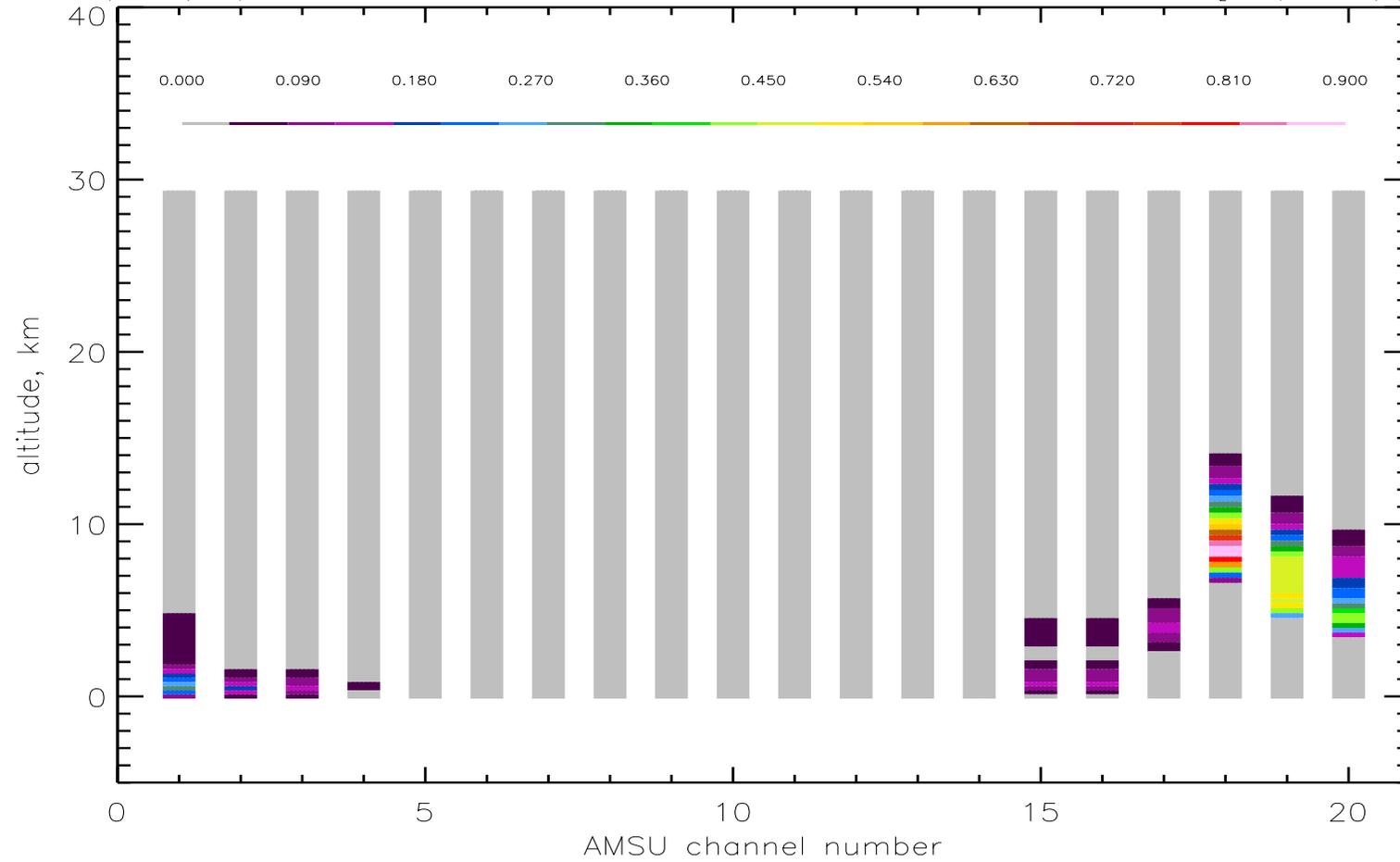
profile	G401 index	latitude	long.	solzang	TPW (cm)
polar	925	85 N	38 E	84	0.5
mid-latitude	5207	41 N	68 W	144	1.4
tropical	1473	10 N	48 W	38	4.5

AMSU H₂O(p) KERNEL Functions



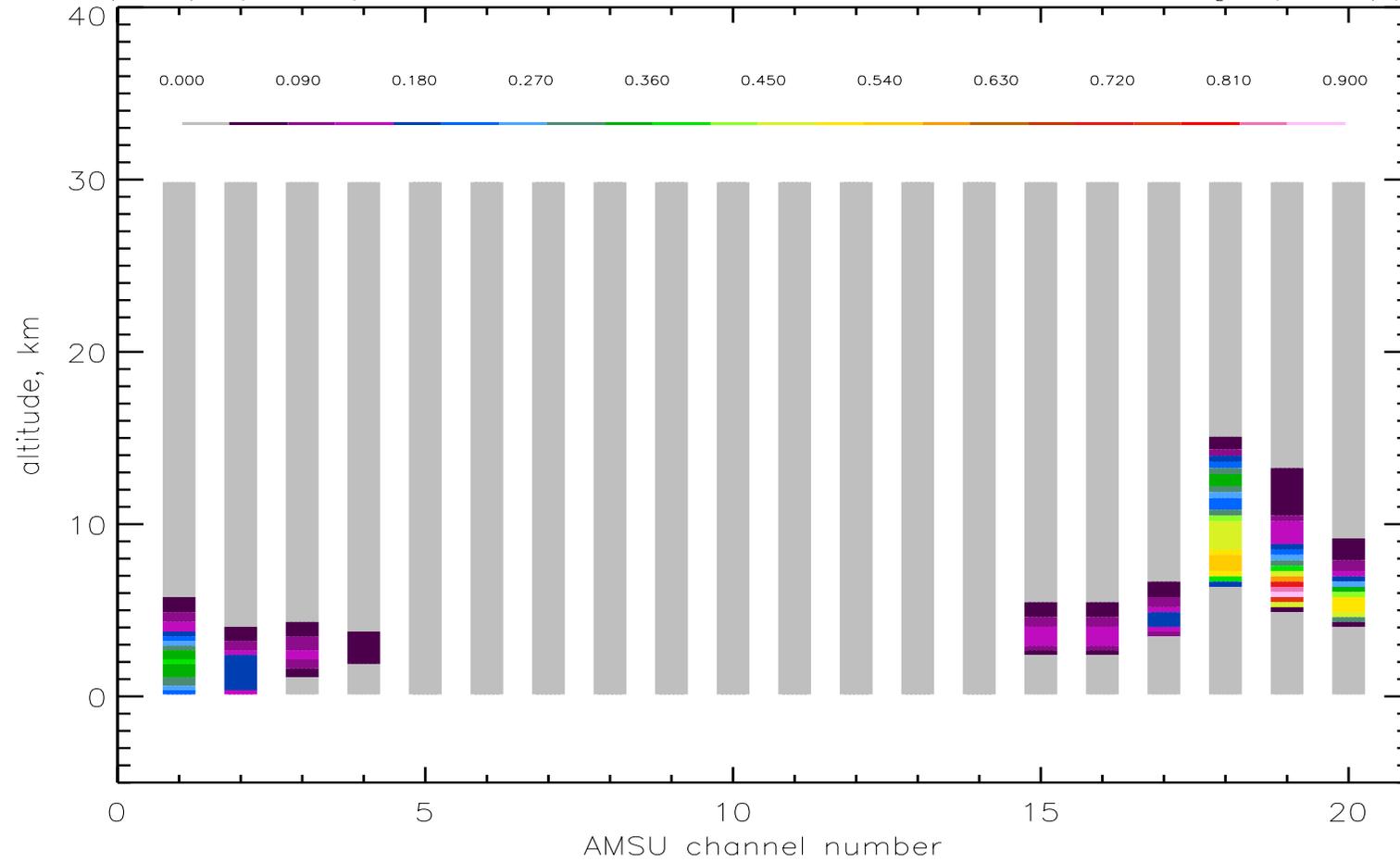
AMSU H₂O(p) KERNEL Functions

AIRS(v8b) f/ Mid-Lat Case: water Kernel functions: $10 * d\{\Delta\tau/\Delta\ln(q)\}/dz$



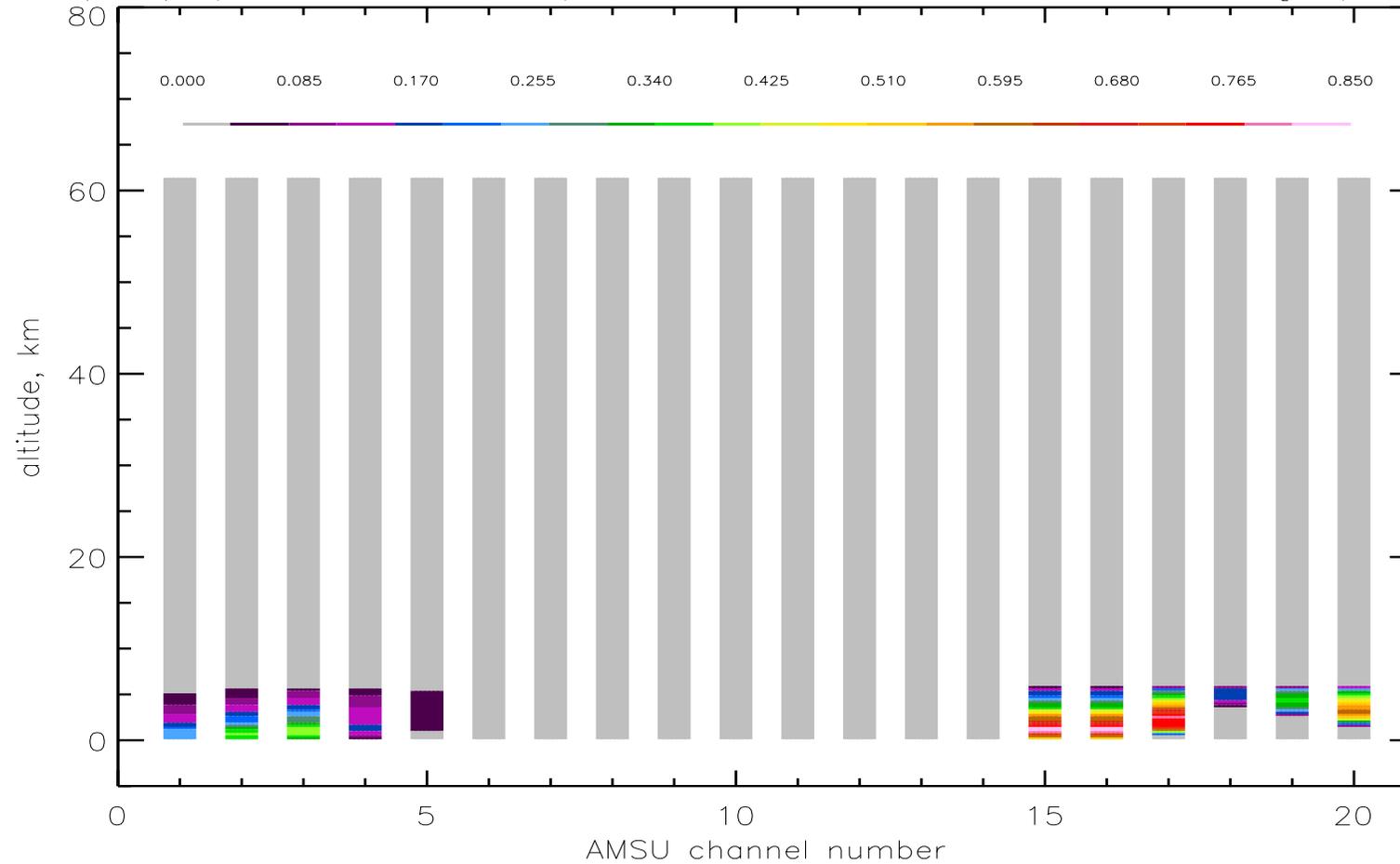
AMSU H₂O(p) KERNEL Functions

AIRS(v8b) f/ Tropical Case: water Kernel functions: $10 * d\{\Delta\tau/\Delta\ln(q)\}/dz$



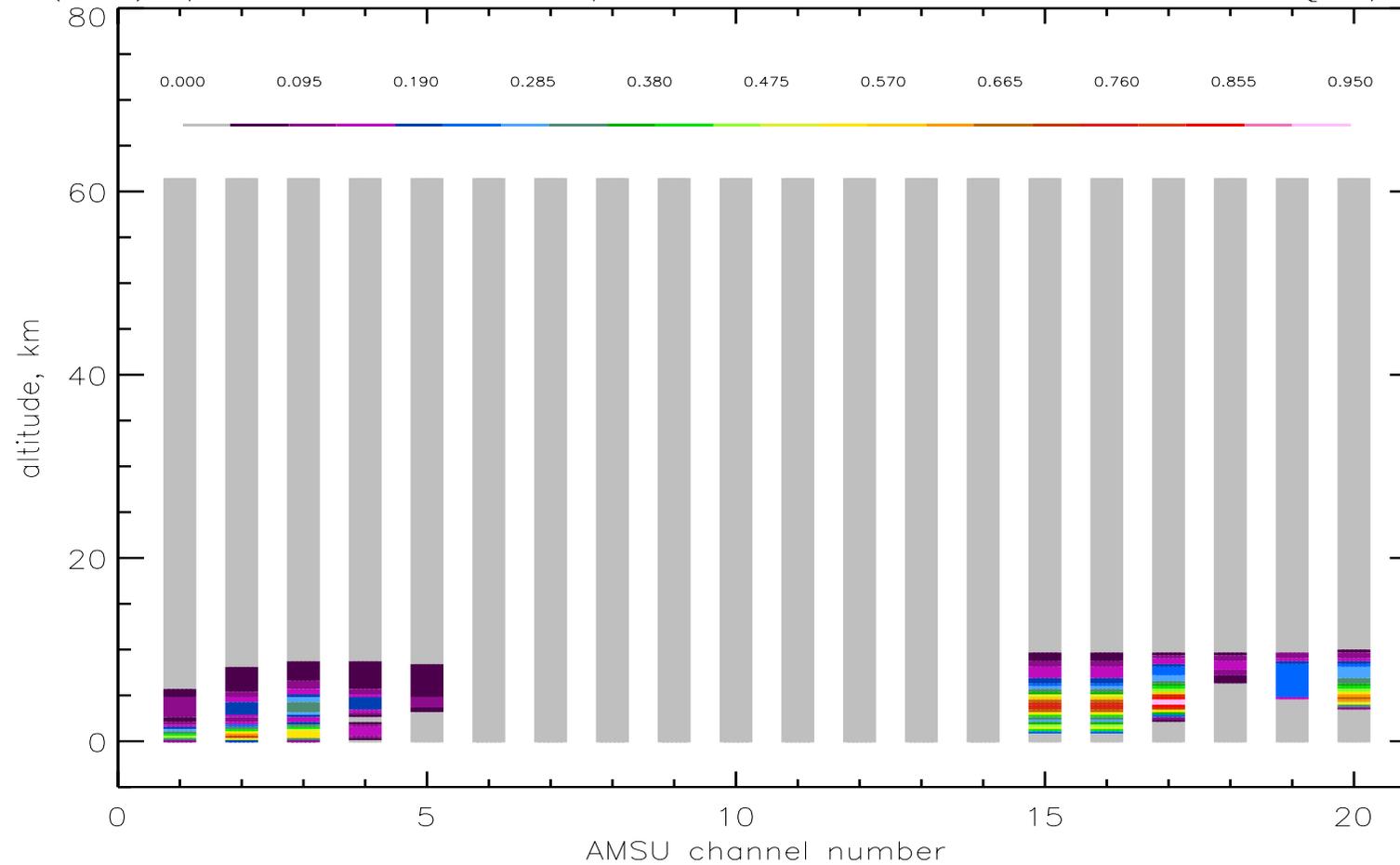
AMSU Liquid Water) KERNEL Functions

AIRS(v8b) f/ Polar Case: Liquid Water Kernel functions: $10 * d\{\Delta\tau/\Delta LIQ\}/dz$



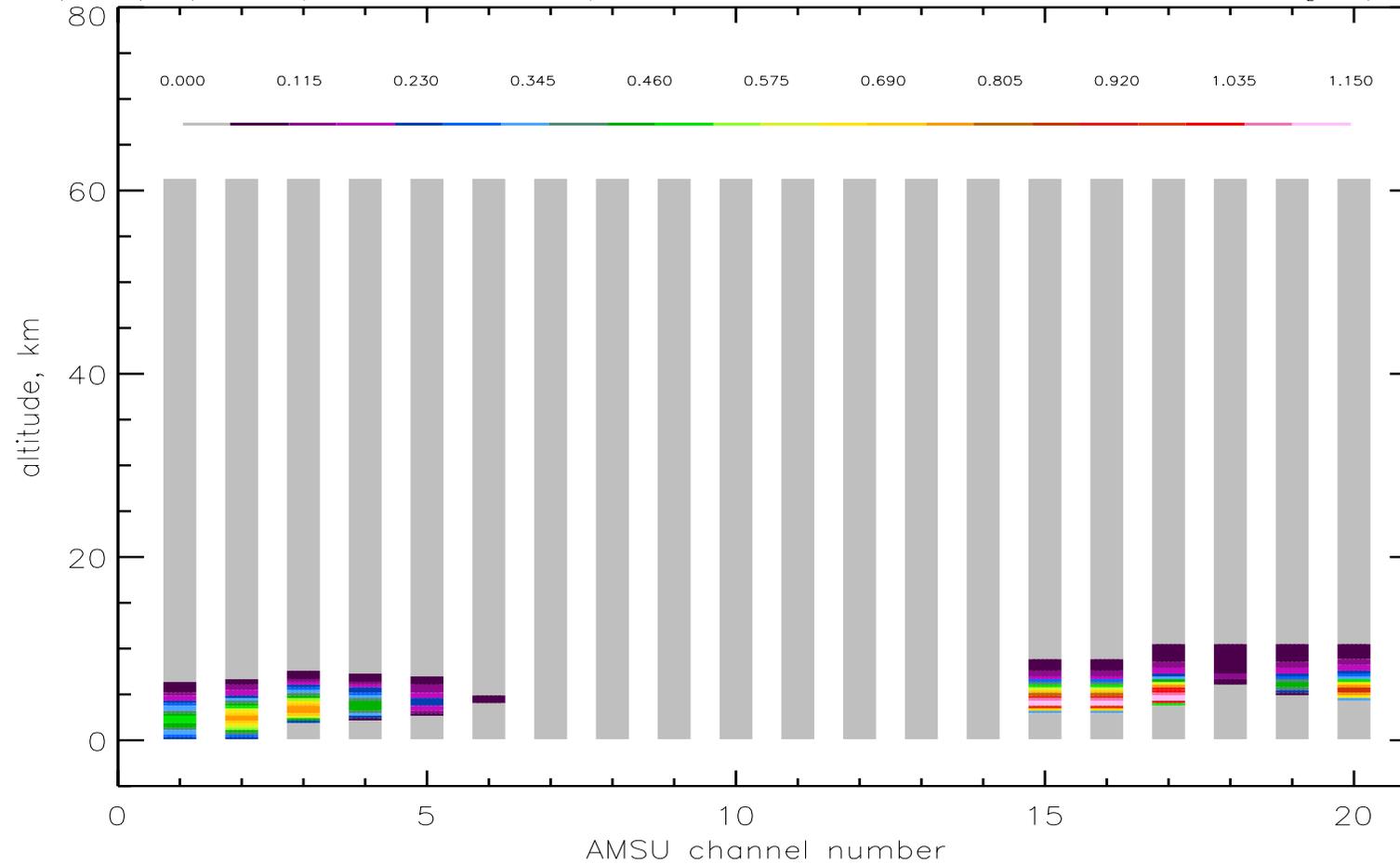
AMSU Liquid Water) KERNEL Functions

AIRS(v8b) f/ Mid-Lat Case: Liquid Water Kernel functions: $10 * d\{\Delta\tau/\Delta LIQ\}/dz$

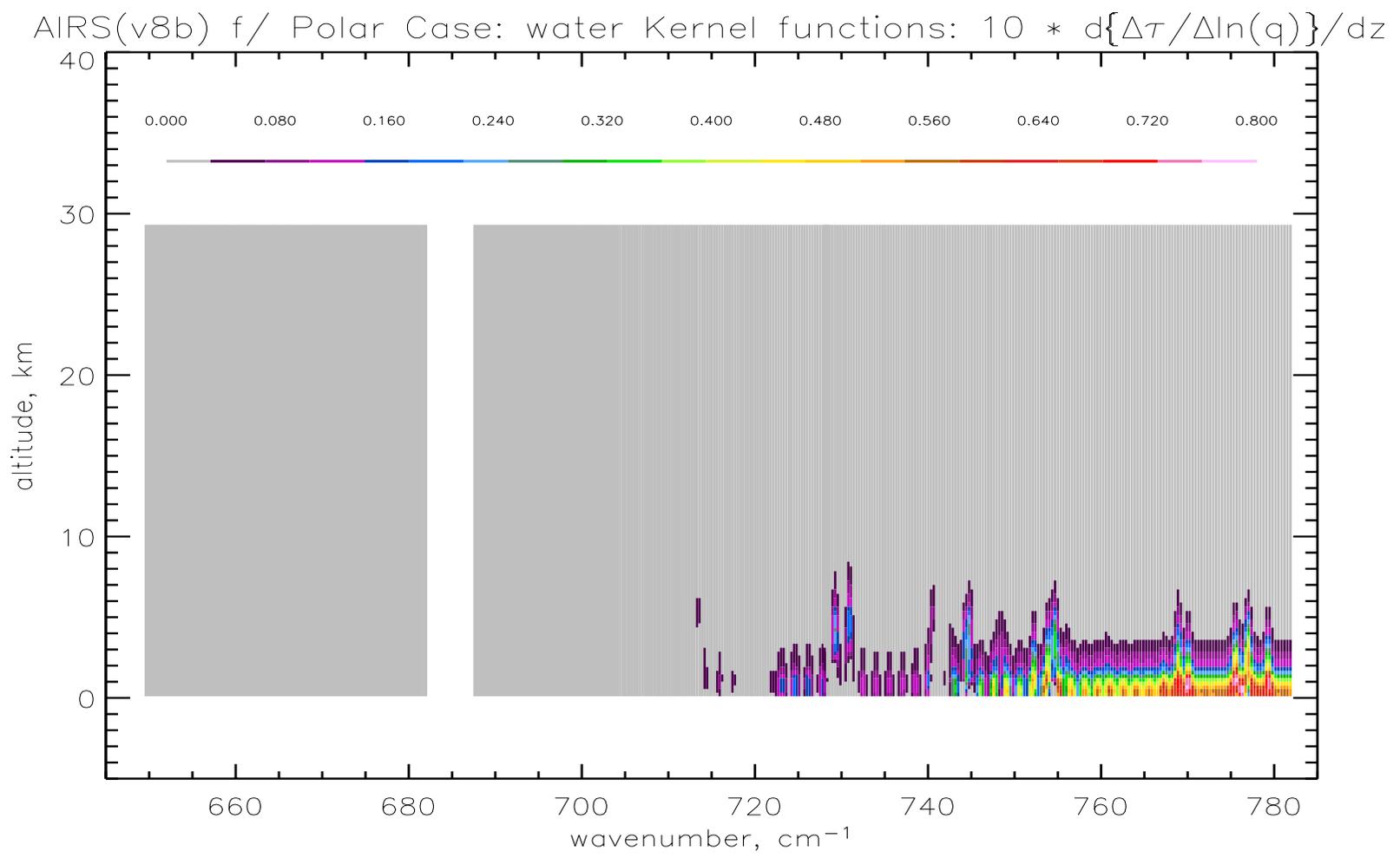


AMSU Liquid Water) KERNEL Functions

AIRS(v8b) f/ Tropical Case: Liquid Water Kernel functions: $10 * d\{\Delta\tau/\Delta LIQ\}/dz$

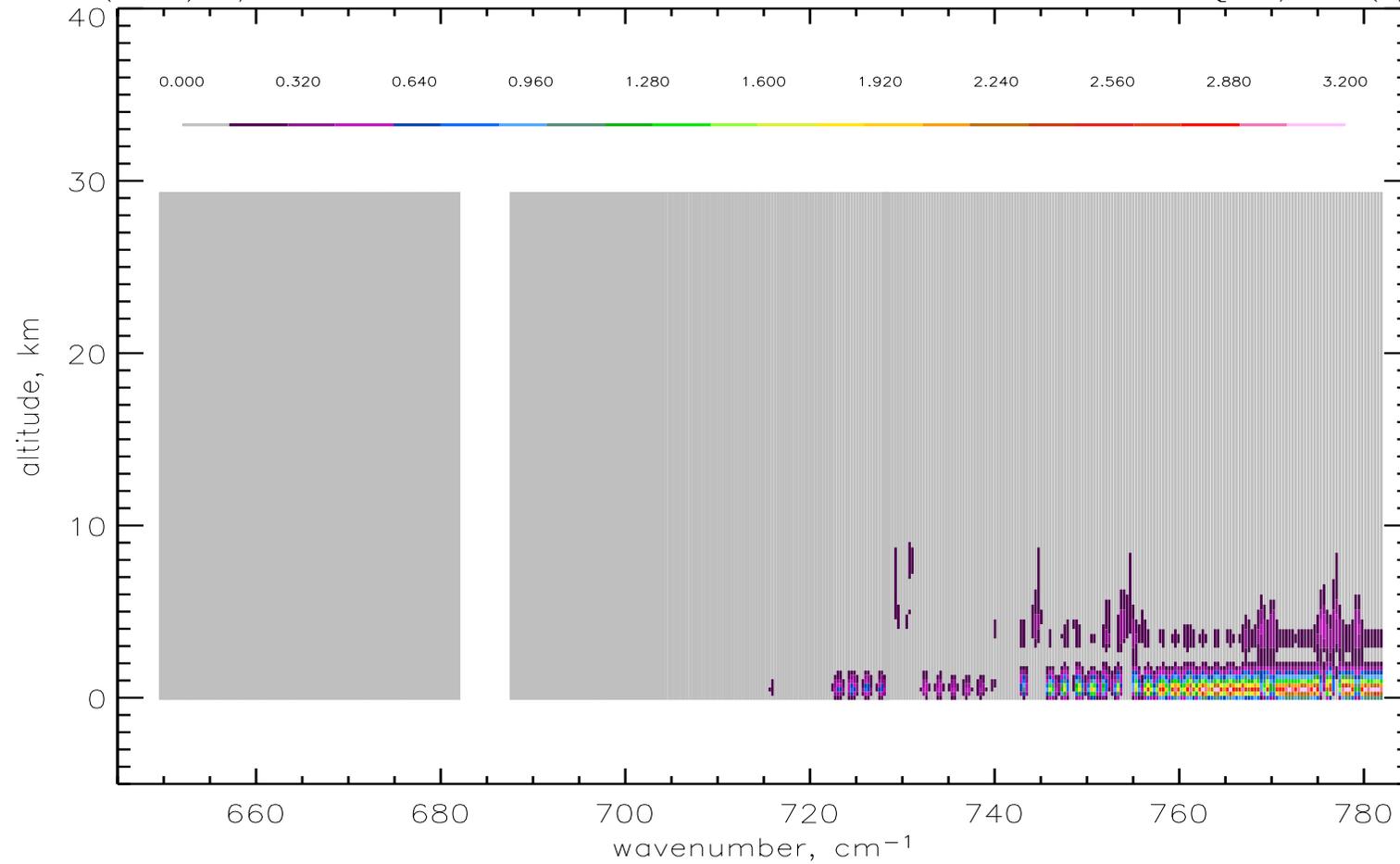


AIRS H₂O(p) KERNEL Functions: 650→ 780 cm⁻¹



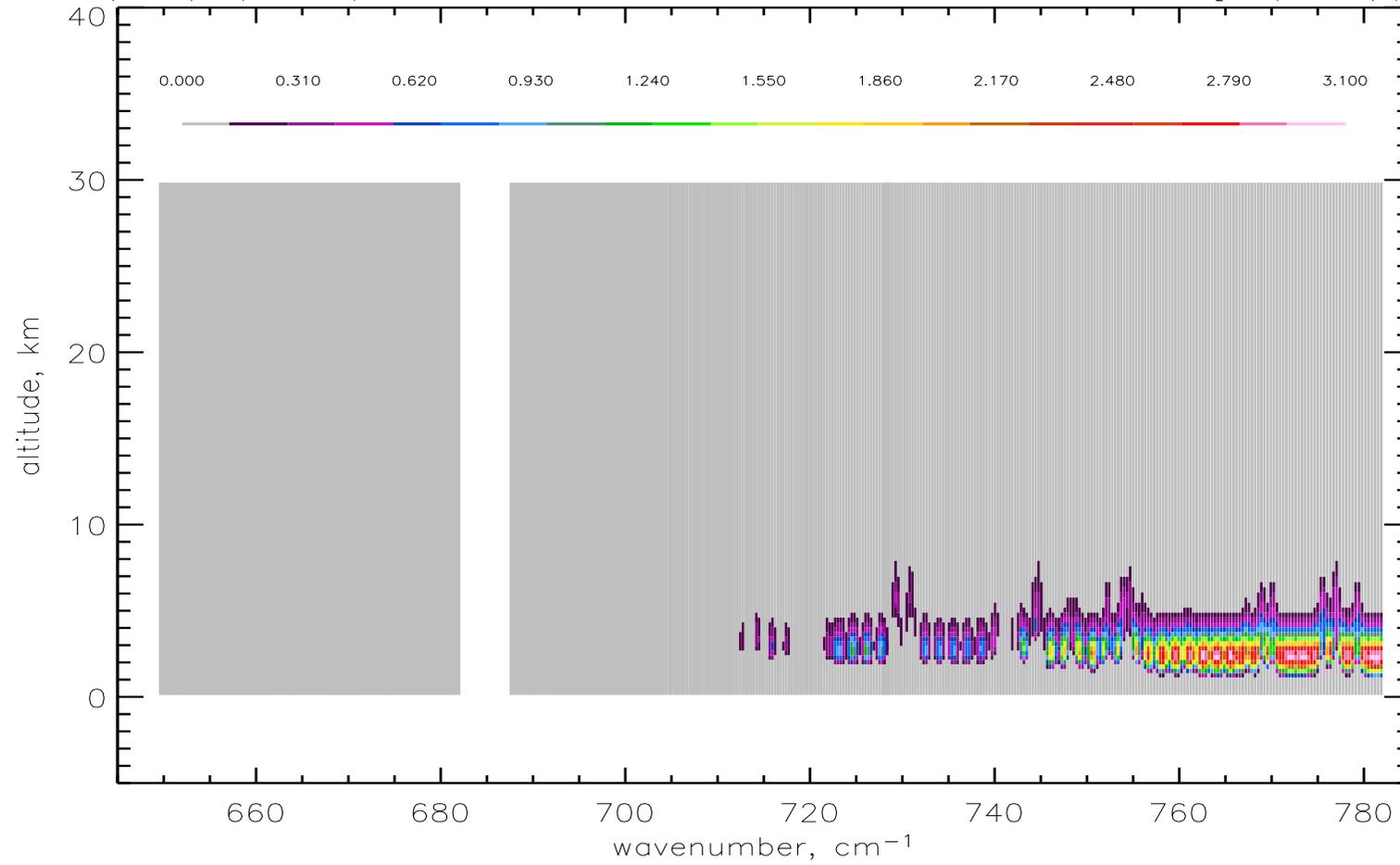
AIRS H₂O(p) KERNEL Functions: 650→ 780 cm⁻¹

AIRS(v8b) f/ Mid-Lat Case: water Kernel functions: $10 * d\{\Delta\tau/\Delta\ln(q)\}/dz$

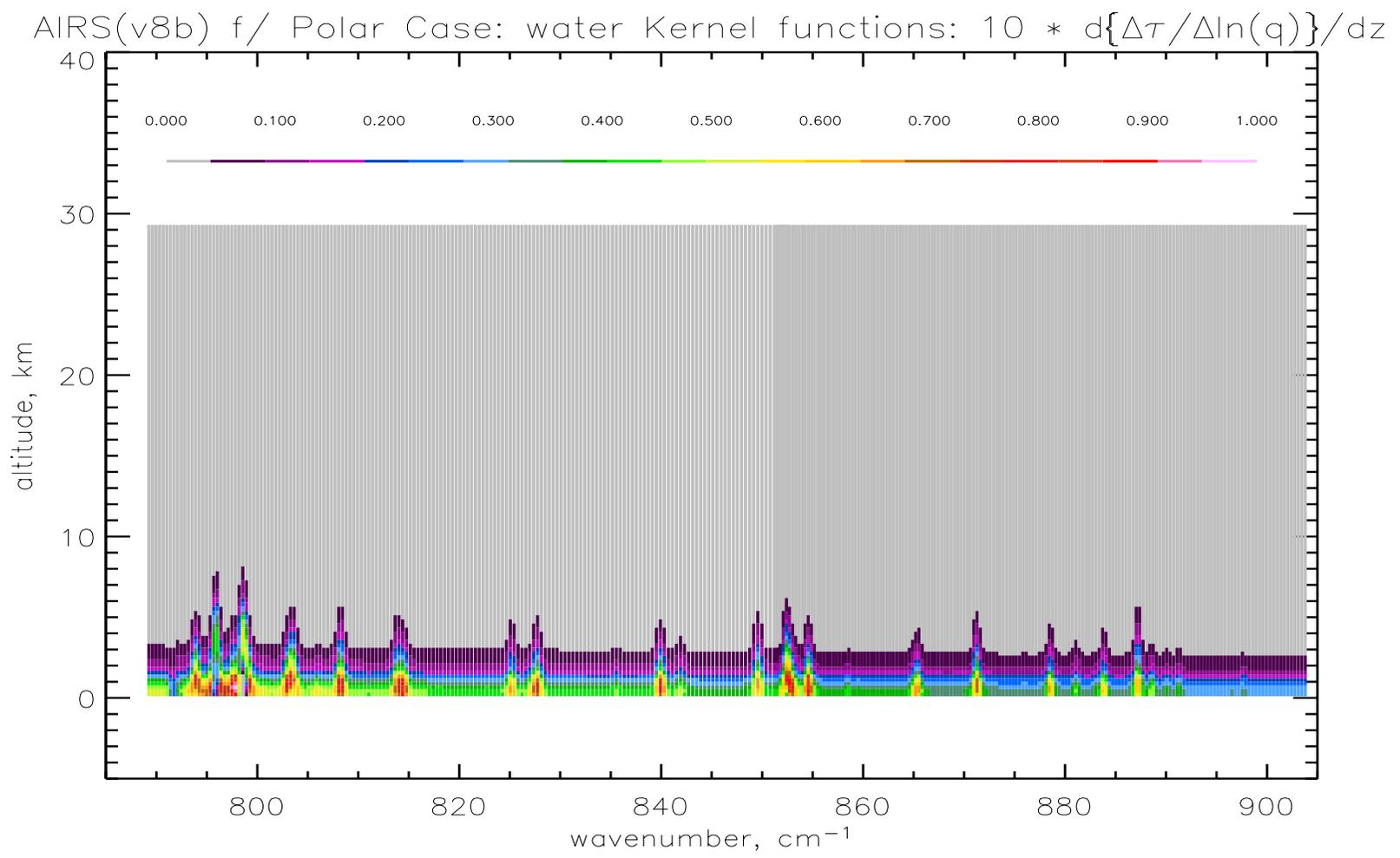


AIRS H₂O(p) KERNEL Functions: 650→ 780 cm⁻¹

AIRS(v8b) f/ Tropical Case: water Kernel functions: $10 * d\{\Delta\tau/\Delta\ln(q)\}/dz$

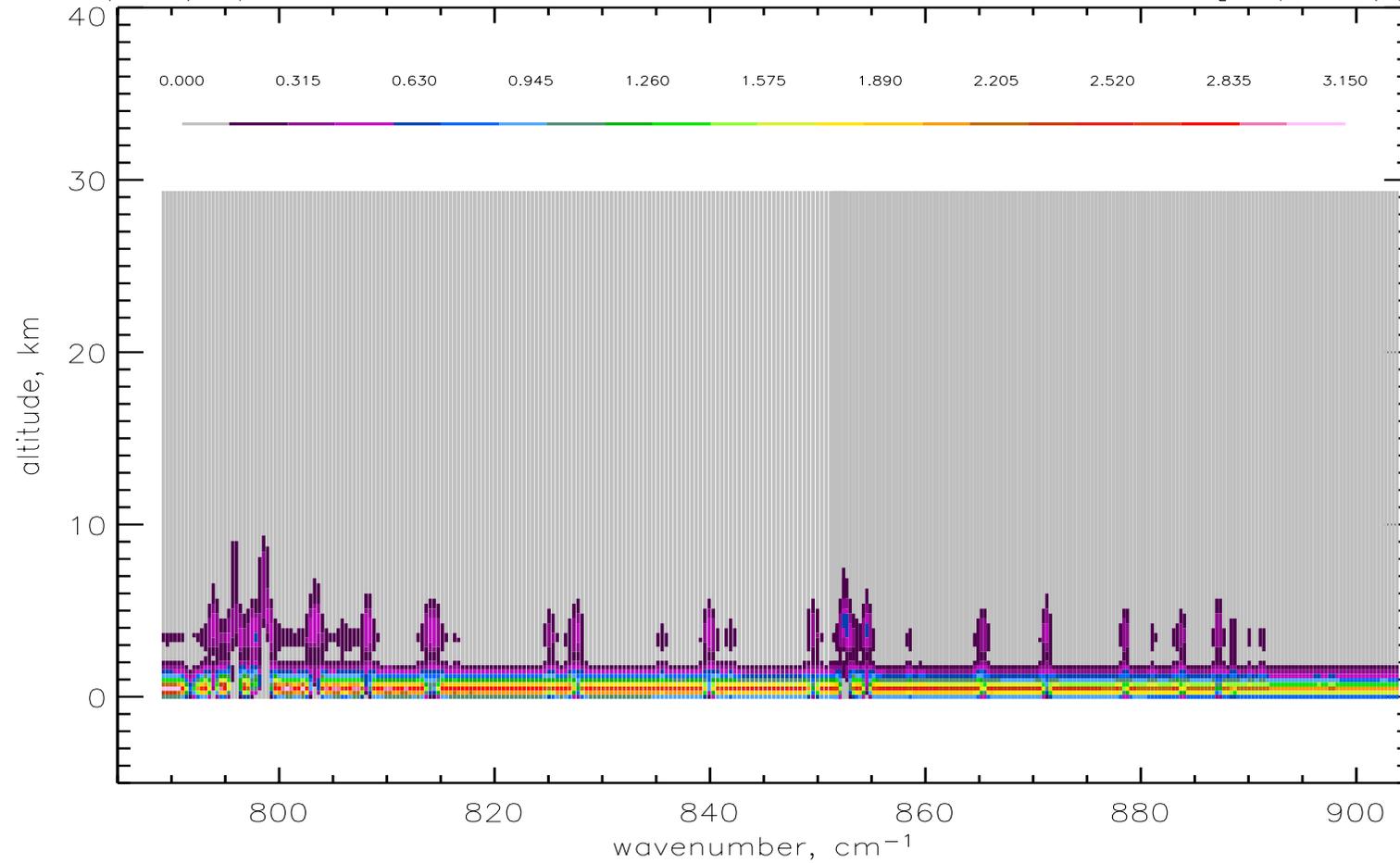


AIRS H₂O(p) KERNEL Functions: 780→ 910 cm⁻¹



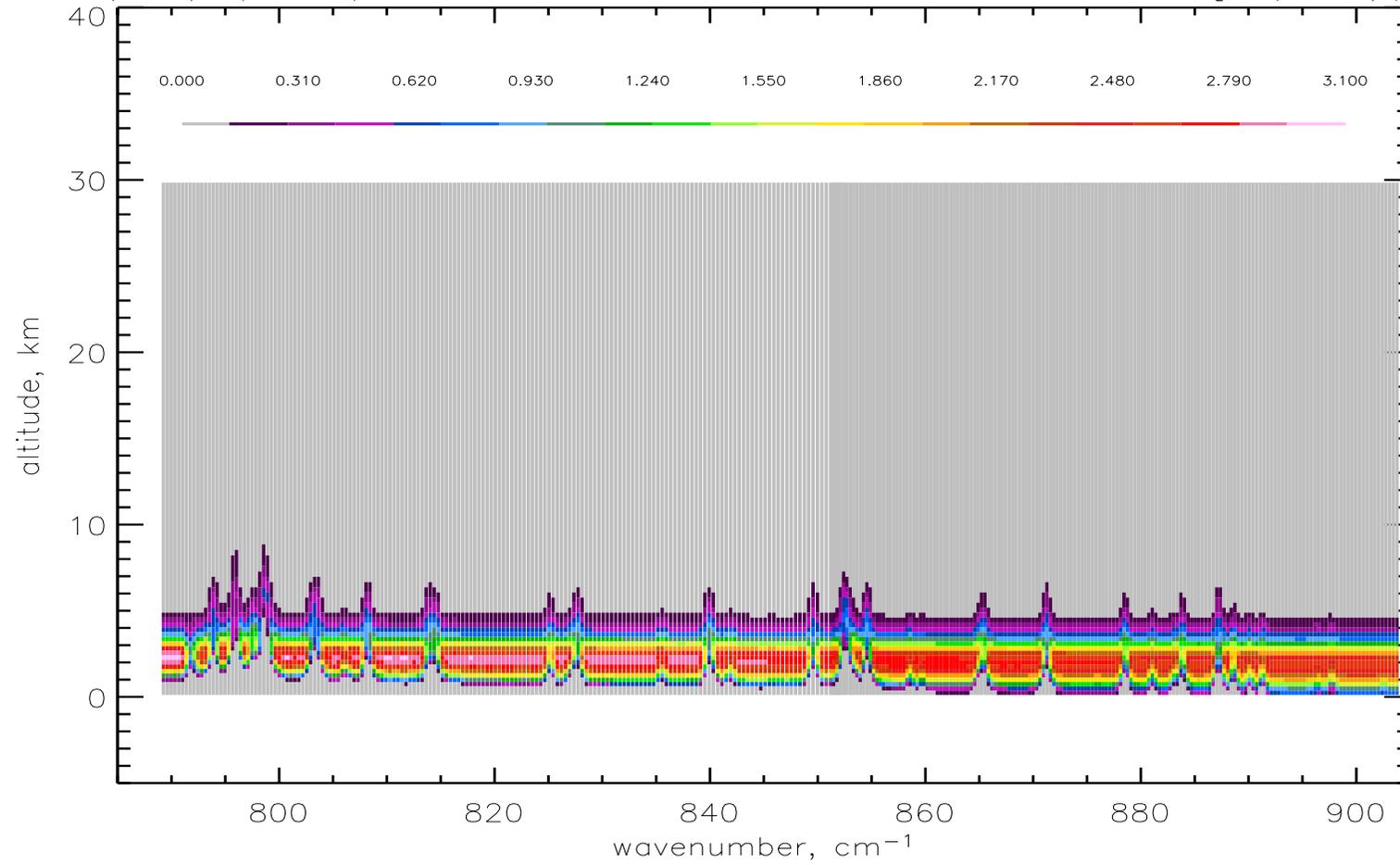
AIRS H₂O(p) KERNEL Functions: 780→ 910 cm⁻¹

AIRS(v8b) f/ Mid-Lat Case: water Kernel functions: $10 * d\{\Delta\tau/\Delta\ln(q)\}/dz$

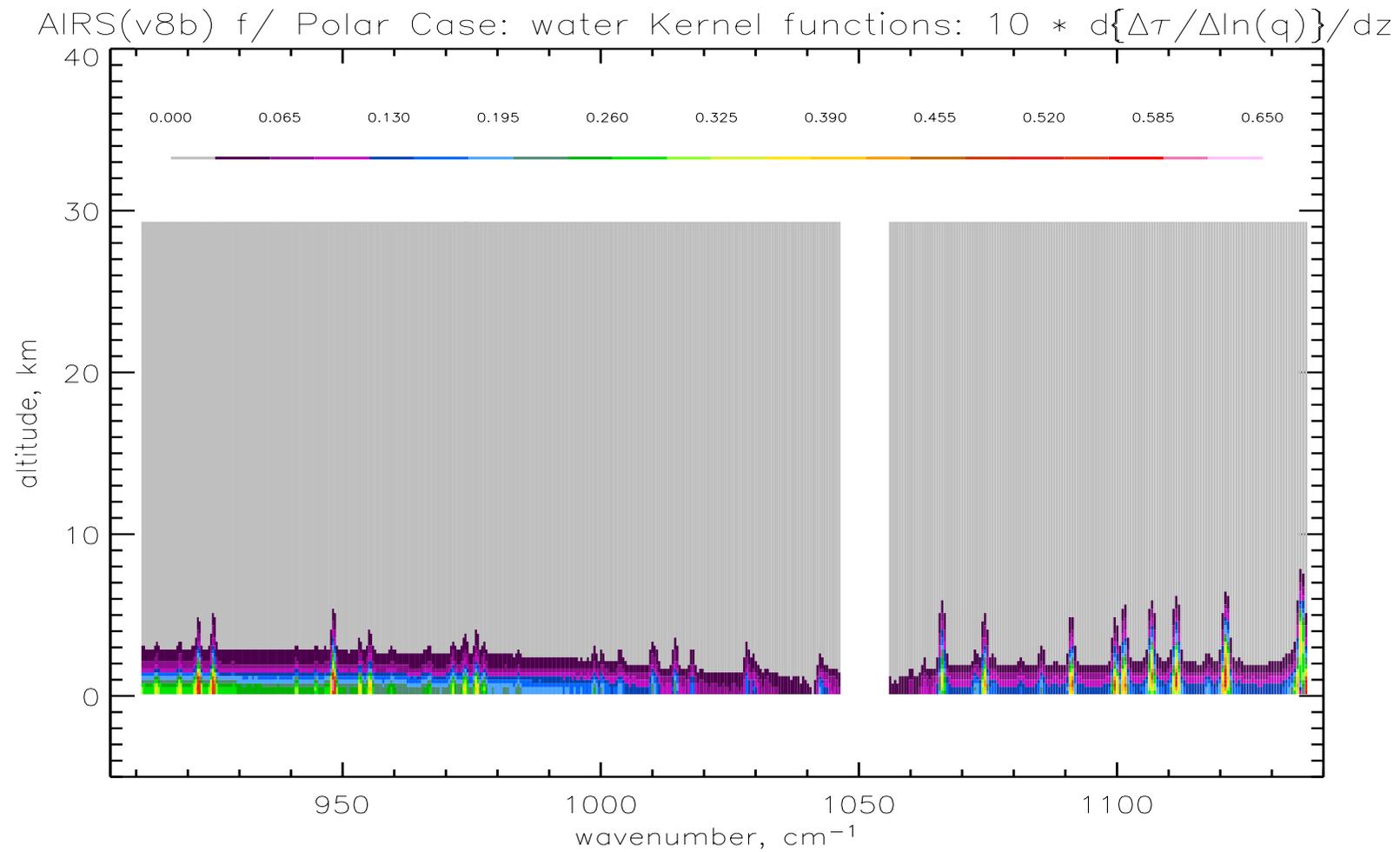


AIRS H₂O(p) KERNEL Functions: 780→ 910 cm⁻¹

AIRS(v8b) f/ Tropical Case: water Kernel functions: $10 * d\{\Delta\tau/\Delta\ln(q)\}/dz$

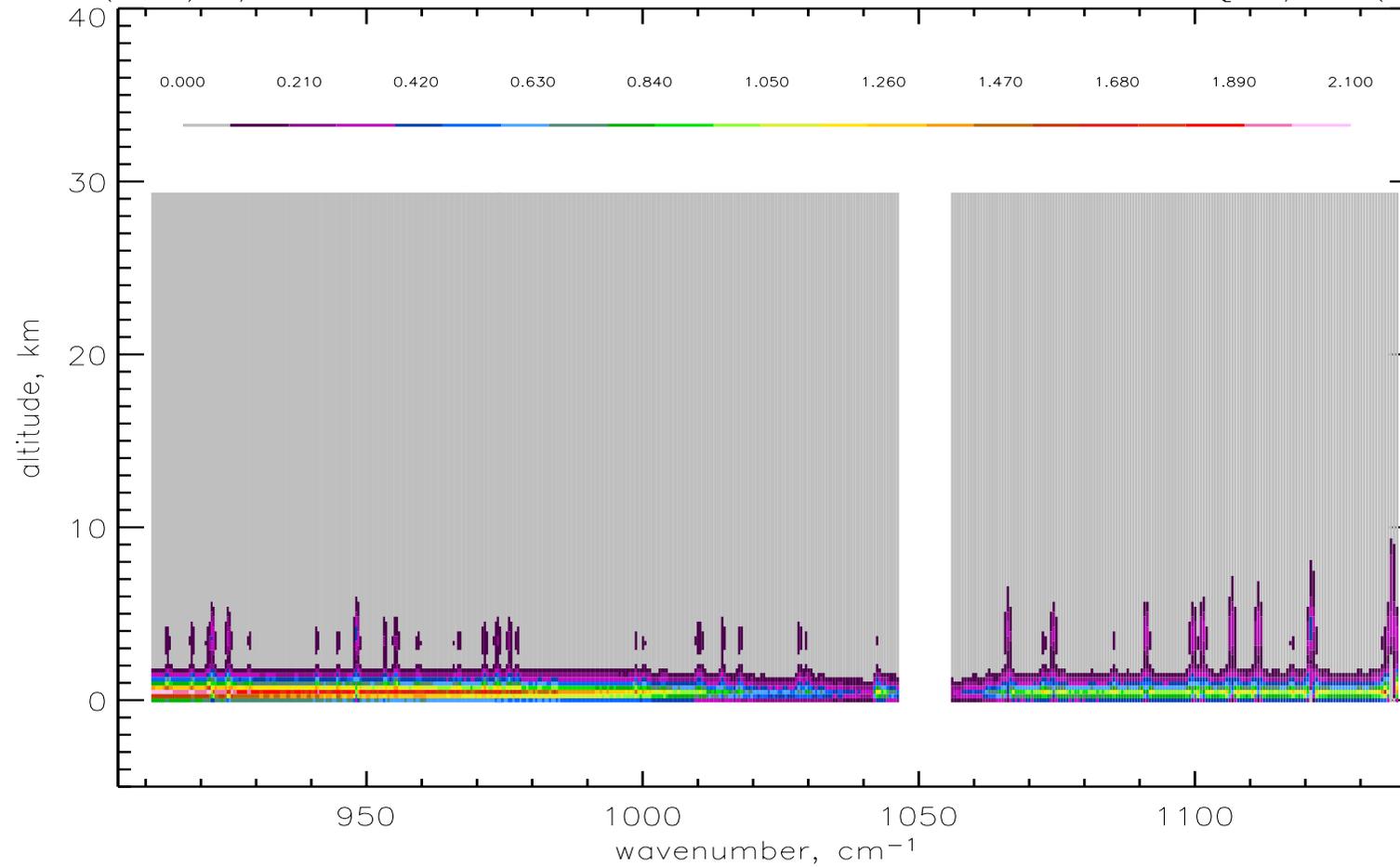


AIRS H₂O(p) KERNEL Functions: 910→ 1140 cm⁻¹



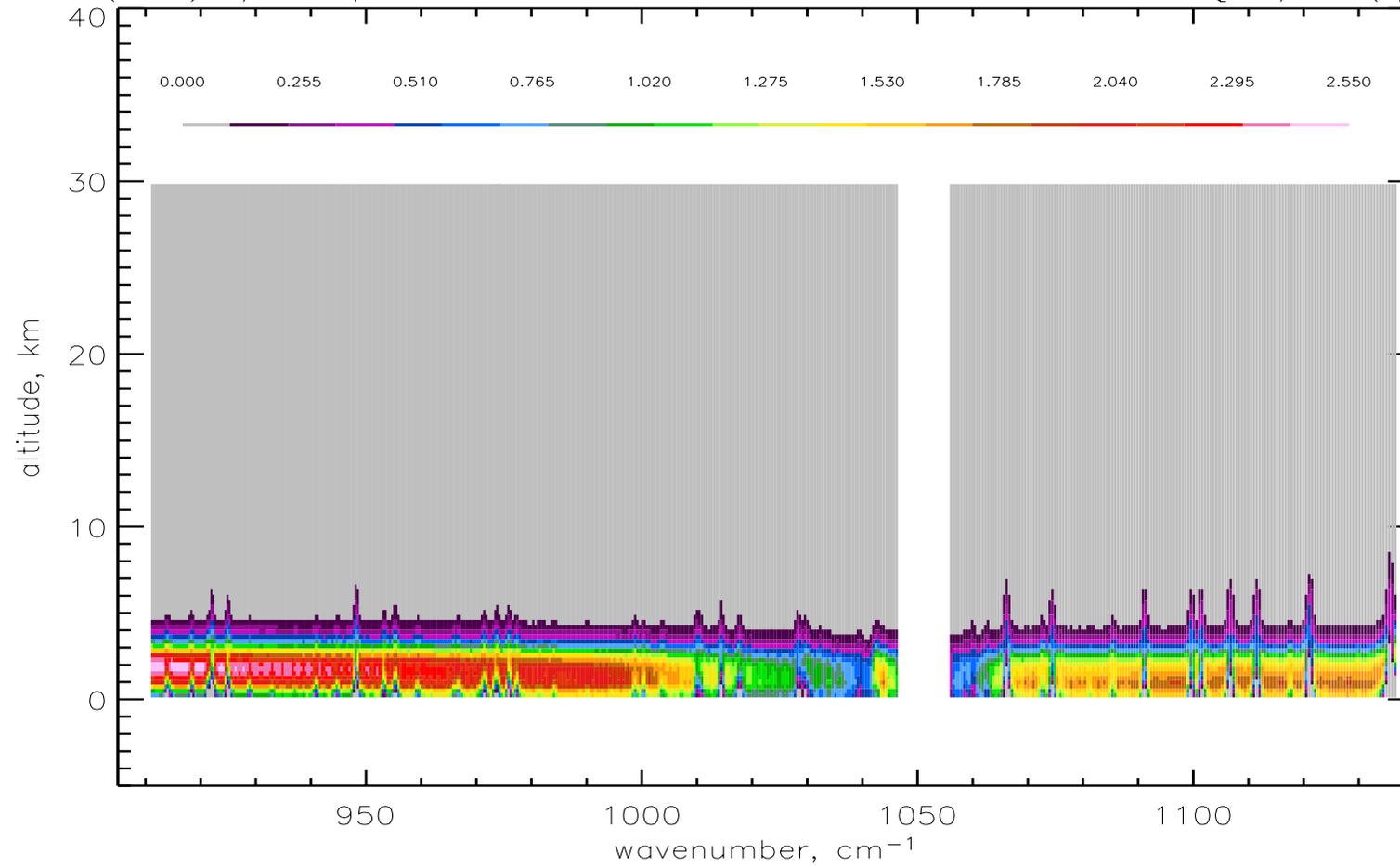
AIRS H₂O(p) KERNEL Functions: 910→ 1140 cm⁻¹

AIRS(v8b) f/ Mid-Lat Case: water Kernel functions: $10 * d\{\Delta\tau/\Delta\ln(q)\}/dz$

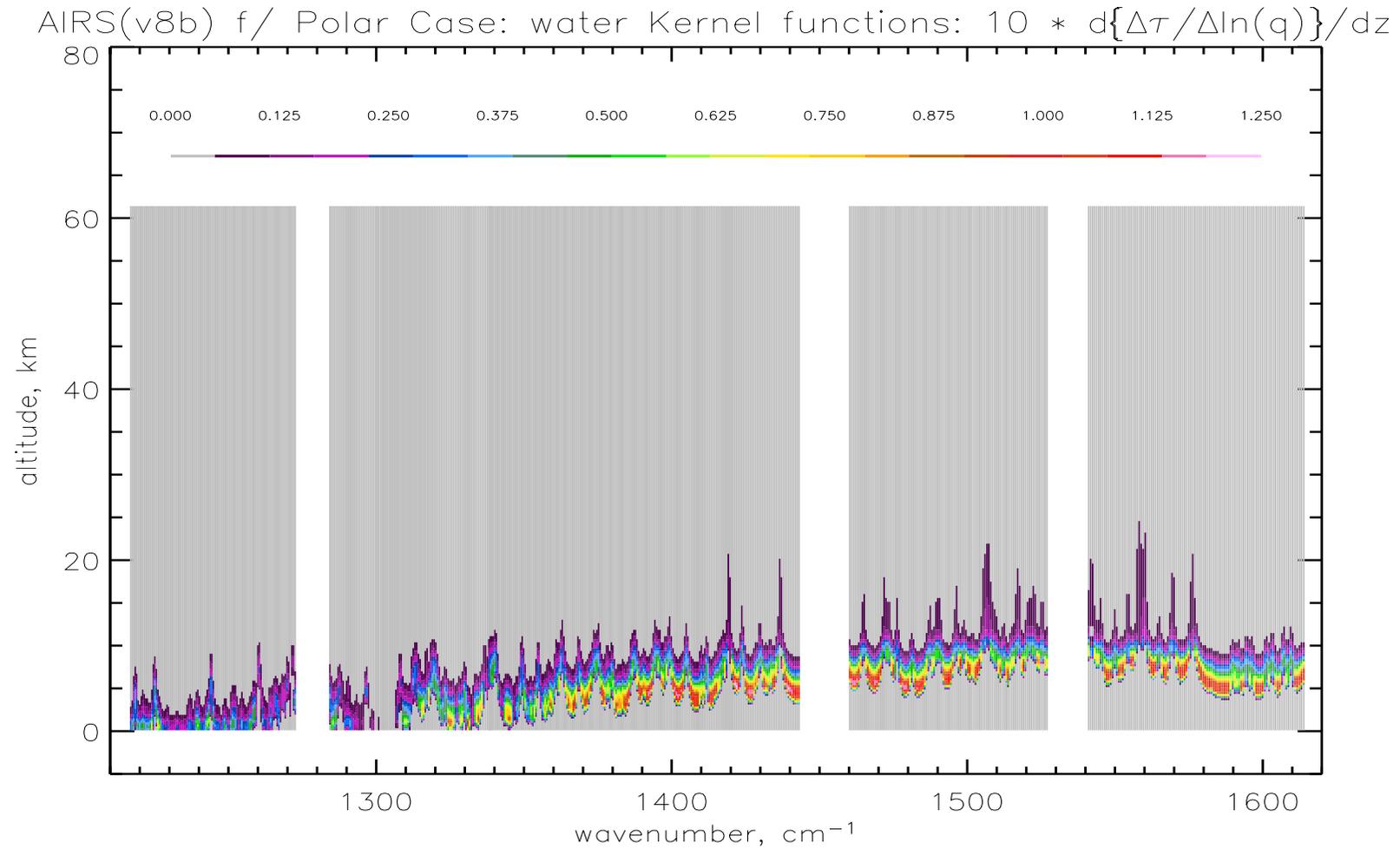


AIRS H₂O(p) KERNEL Functions: 910→ 1140 cm⁻¹

AIRS(v8b) f/ Tropical Case: water Kernel functions: $10 * d\{\Delta\tau/\Delta\ln(q)\}/dz$

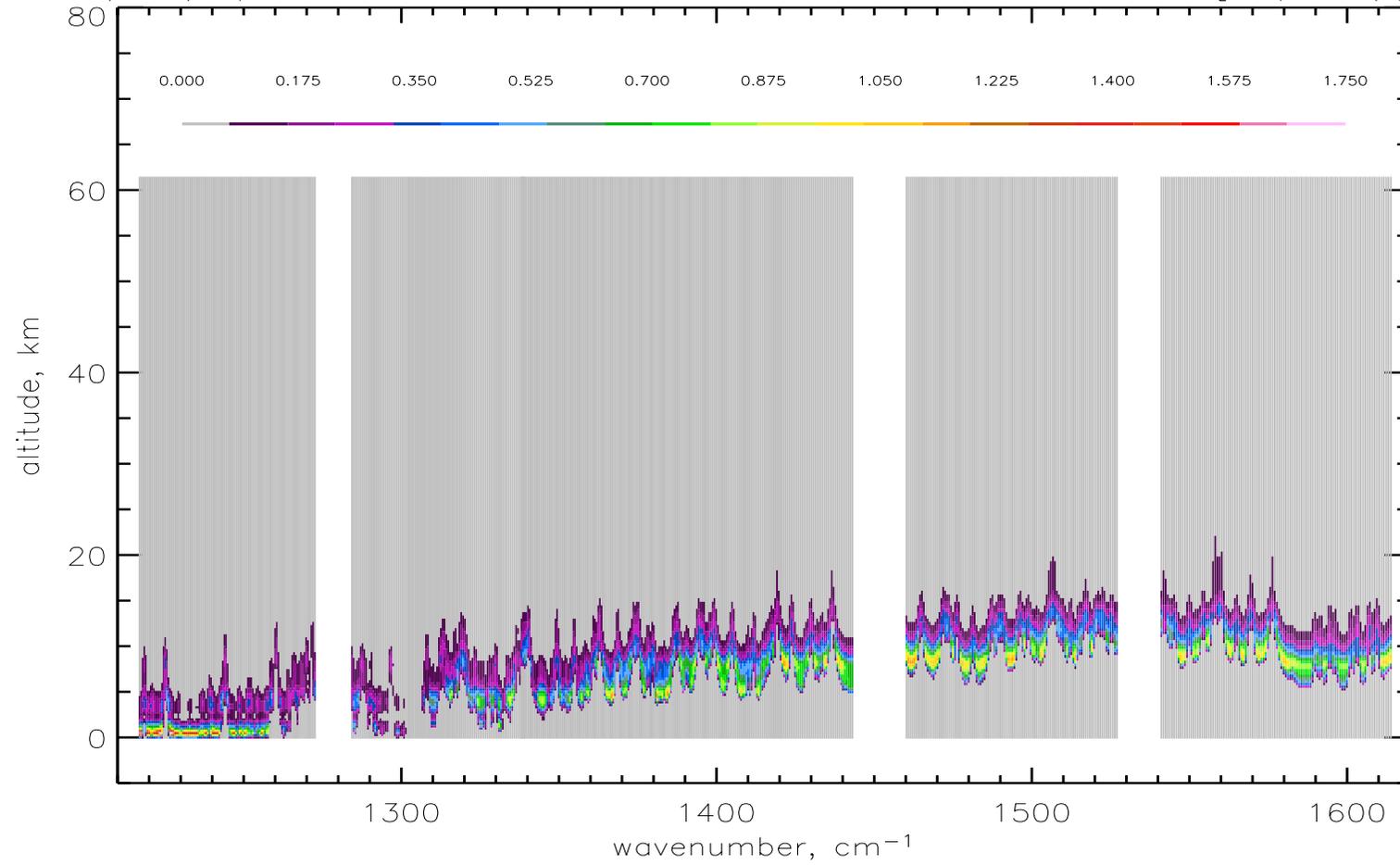


AIRS H₂O(p) KERNEL Functions: 1210→ 1620 cm⁻¹



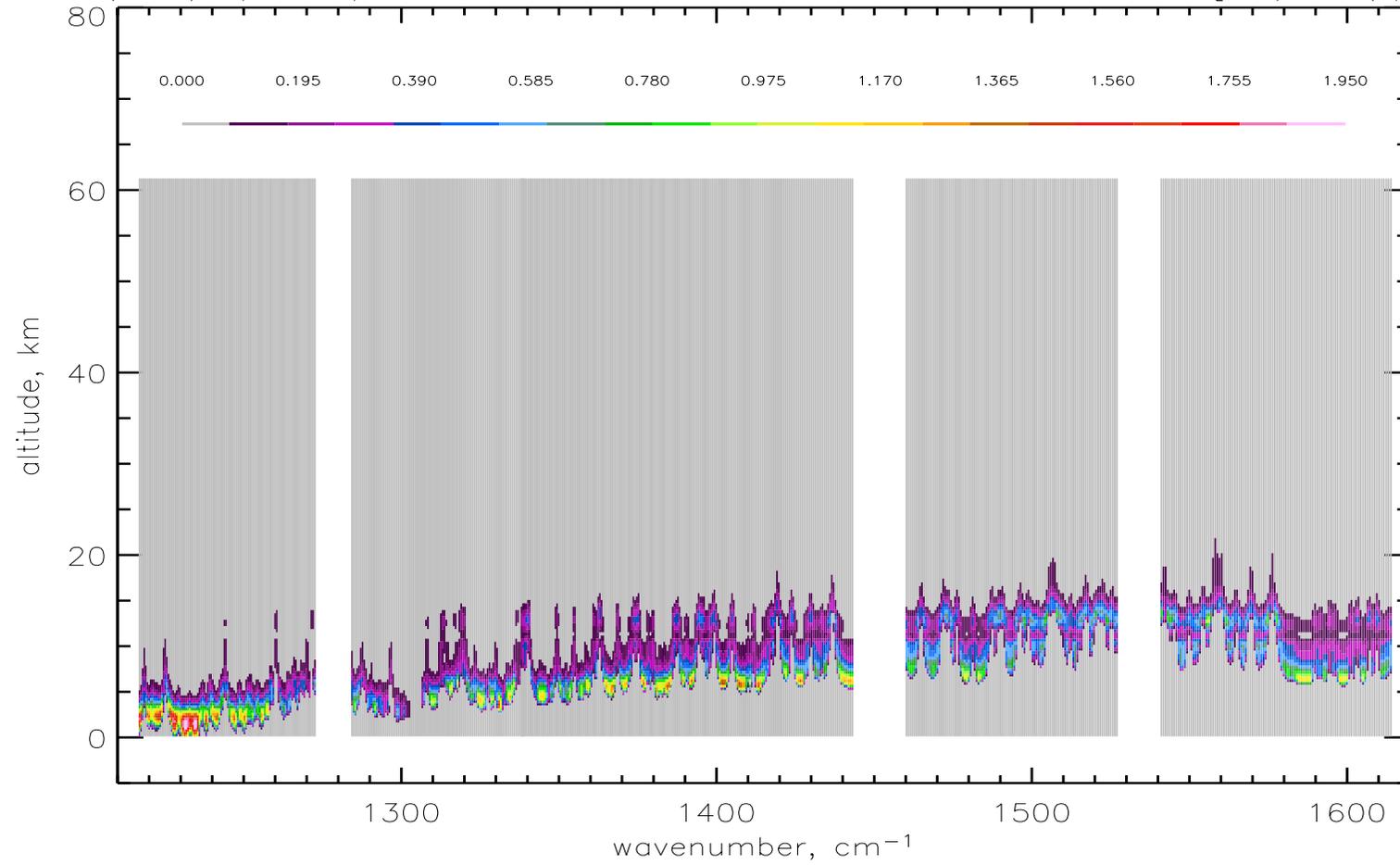
AIRS H₂O(p) KERNEL Functions: 1210→ 1620 cm⁻¹

AIRS(v8b) f/ Mid-Lat Case: water Kernel functions: $10 * d\{\Delta\tau/\Delta\ln(q)\}/dz$

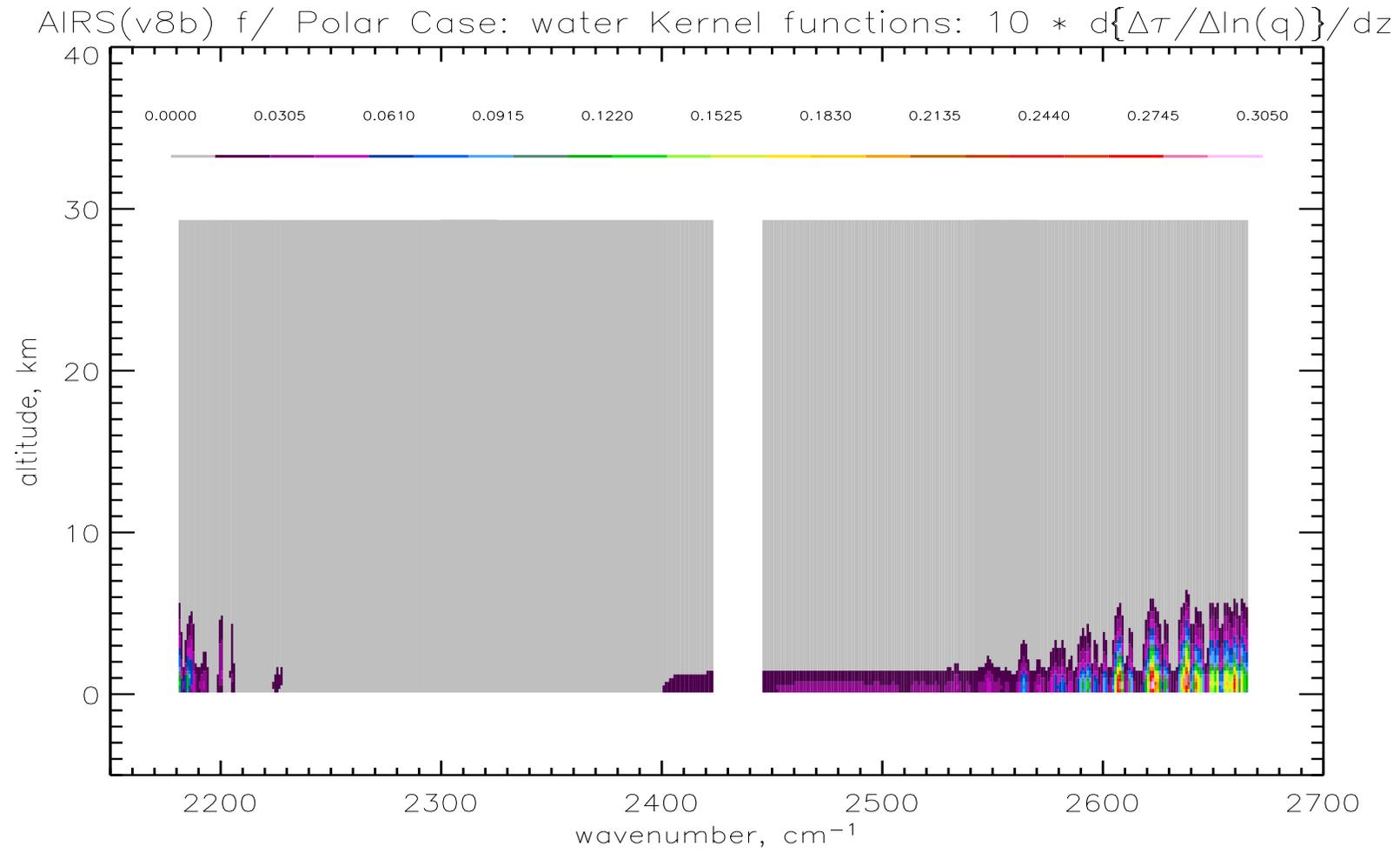


AIRS H₂O(p) KERNEL Functions: 1210→ 1620 cm⁻¹

AIRS(v8b) f/ Tropical Case: water Kernel functions: $10 * d\{\Delta\tau/\Delta\ln(q)\}/dz$

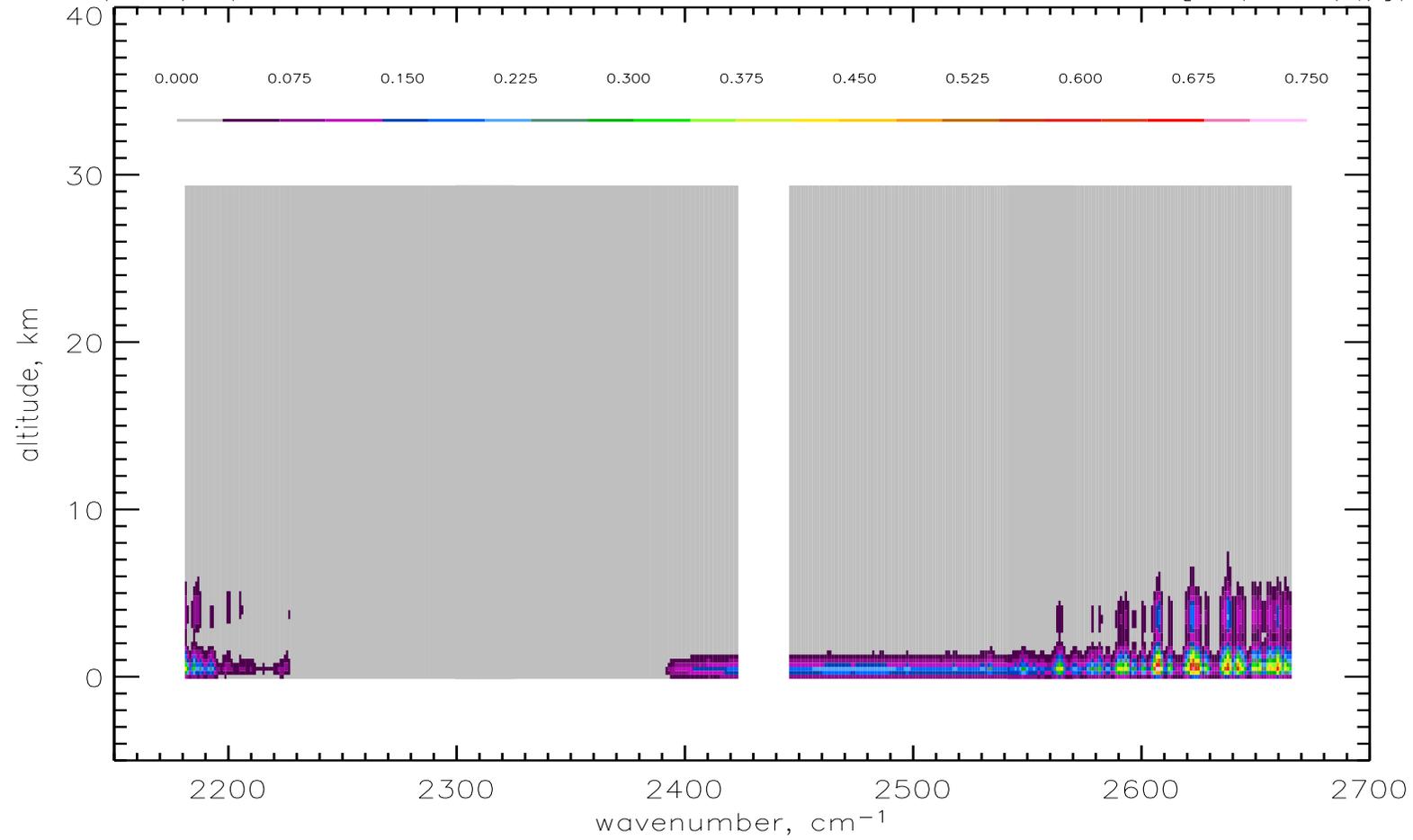


AIRS H₂O(p) KERNEL Functions: 2180→ 2700 cm⁻¹



AIRS H₂O(p) KERNEL Functions: 2180→ 2700 cm⁻¹

AIRS(v8b) f/ Mid-Lat Case: water Kernel functions: $10 * d\{\Delta\tau/\Delta\ln(q)\}/dz$



AIRS H₂O(p) KERNEL Functions: 2180→ 2700 cm⁻¹

AIRS(v8b) f/ Tropical Case: water Kernel functions: $10 * d\{\Delta\tau/\Delta\ln(q)\}/dz$

